

**Simplifying Expressions 1:5:3**      Name \_\_\_\_\_

If possible, combine like terms to simplify each expression.

1)  $6y + 4x + 3y$

2)  $12 + 18r + 15 - 4r$

3)  $5m + 4n + 15m$

4)  $6xy + 7xyz$

5)  $7h + 8k - 3h - 2h + 4k$

6)  $8g + 9 - 6g - g$

7)  $5 + 10 + 10p + 6 - 4p$

8)  $5 + 4r - 3 + 7r + 32r^2 - 12r^2$

9)  $v - v$

10)  $c + c + c + c + c$

Solve each equation.

11)  $5w = 120$

12)  $y - 8 = 46$

13)  $\frac{m}{4} = 6$

14)  $5h - 1 = 19$

15)  $27 = 5k - 3$

16)  $4j + 11 = 39$

Solve each equation.

17)  $16 + 4u = 32$

18)  $7y - 15 = 55$

19)  $\frac{p}{7} - 1 = 3$

Write an equation for each situation. *Tell what each of your variables represents.*

20) The total cost of admission to Disney World is \$79 for adults and \$68 for children.

21) The total cost of going to the opera is \$30 for each adult, \$18 for students, and \$6 for kids under 5 years old.

22) Find the cost of attending the opera for a family of 2 adults, 2 students, and 2 kids under 5 years old using your equation from #21.